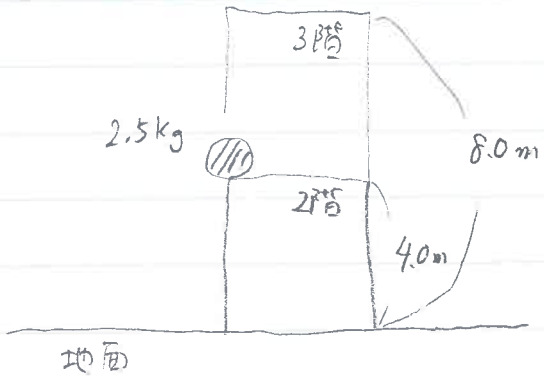


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$$(1) \quad U = mgh = 2.5 \times 9.8 \times 4.0 \\ = 98 \quad \therefore 98 \text{ [J]}$$

$$(2) \quad U = mgh = 2.5 \times 9.8 \times 0 \\ = 0 \quad \therefore 0 \text{ [J]}$$

$$(3) \quad U = mgh = 2.5 \times 9.8 \times (-4.0) \\ = -98 \quad \therefore -98 \text{ [J]}$$